

Engineering Mechanics

Your Ultimate Cheat Sheet

Statics

VECTOR
 Triangle Rule: $\vec{a} + \vec{b} = \vec{c}$
 Triangle Rule: $\vec{a} + \vec{b} = \vec{c}$
 Triangle Rule: $\vec{a} + \vec{b} = \vec{c}$

Triangle Rule
 $a^2 = b^2 + c^2 - 2bc \cos A$
 $b^2 = a^2 + c^2 - 2ac \cos B$
 $c^2 = a^2 + b^2 - 2ab \cos C$

Resolution
 $R_x = \sum F_x$
 $R_y = \sum F_y$
 $R = \sqrt{R_x^2 + R_y^2}$
 $\theta = \tan^{-1} \frac{R_y}{R_x}$

Dynamics

KINEMATICS

LINEAR	ANGULAR
$s = vt$	$\theta = \omega t$
$v = u + at$	$\omega = \omega_0 + \alpha t$
$v^2 = u^2 + 2as$	$\omega^2 = \omega_0^2 + 2\alpha\theta$
$s = ut + \frac{1}{2}at^2$	$\theta = \omega_0 t + \frac{1}{2}\alpha t^2$

PROJECTILE
 Projectile Motion Diagram

WORK AND ENERGY
 Work: $W = F \cdot d$
 Kinetic Energy: $E_k = \frac{1}{2}mv^2$
 Potential Energy: $E_p = mgh$
 Conservation of Energy: $E_{total} = E_{kinetic} + E_{potential}$

IMPULSION
 Impulse: $J = F \cdot \Delta t$
 Change in Momentum: $\Delta p = J$
 Conservation of Momentum: $p_1 = p_2$

COLLISIONS
 Elastic: $v_1 + v_1' = v_2 + v_2'$
 Inelastic: $v_1 + v_1' = v_2 + v_2'$
 Perfectly Inelastic: $v_1 + v_1' = v_2 + v_2'$

Rigid Bodies

SHAPE	CONDITION	DIAGRAM
RECTANGLE	$A = bh$ $V = bh^2/2$ $I_x = bh^3/12$	
CIRCLE	$A = \pi r^2$ $V = \pi r^2 h$ $I_x = \pi r^4/4$	
TRIANGLE	$A = \frac{1}{2}bh$ $V = \frac{1}{2}bh^2$ $I_x = \frac{bh^3}{36}$	
SEMI-CIRCLE	$A = \frac{1}{2}\pi r^2$ $V = \frac{1}{2}\pi r^2 h$ $I_x = \frac{\pi r^4}{8}$	
QUARTER-CIRCLE	$A = \frac{1}{4}\pi r^2$ $V = \frac{1}{4}\pi r^2 h$ $I_x = \frac{\pi r^4}{16}$	

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Xiaolong Qi



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Table of Contents Engineering Mechanics Reference S

1. Understanding the eBook Engineering Mechanics Reference S
 - The Rise of Digital Reading Engineering Mechanics Reference S
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Reference S
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Mechanics Reference S
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Reference S
 - Personalized Recommendations
 - Engineering Mechanics Reference S User Reviews and Ratings

- Engineering Mechanics Reference S and Bestseller Lists
- 5. Accessing Engineering Mechanics Reference S Free and Paid eBooks
 - Engineering Mechanics Reference S Public Domain eBooks
 - Engineering Mechanics Reference S eBook Subscription Services
 - Engineering Mechanics Reference S Budget-Friendly Options
- 6. Navigating Engineering Mechanics Reference S eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Mechanics Reference S Compatibility with Devices
 - Engineering Mechanics Reference S Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Mechanics Reference S
 - Highlighting and Note-Taking Engineering Mechanics Reference S
 - Interactive Elements Engineering Mechanics Reference S
- 8. Staying Engaged with Engineering Mechanics Reference S
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics Reference S
- 9. Balancing eBooks and Physical Books Engineering Mechanics Reference S
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Reference S
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mechanics Reference S
 - Setting Reading Goals Engineering Mechanics Reference S
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mechanics Reference S
 - Fact-Checking eBook Content of Engineering Mechanics Reference S
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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